



Parks and Recreation Department
City of Frisco, Texas

To: Tom Johnston, Purchasing Manager

From: Dudley Raymond, R.L.A., Planning and Capital Projects
Superintendent

CC Rick Wieland, Director of Parks and Recreation

Date: November 6, 2008

Subject: Lighting for Shawnee Trail Sports Complex
Buy Board Quote # 204-04#528

Background: Shawnee Trail Sports Complex was constructed in 1994. At that time the sports lighting installed for the baseball/softball fields was a good quality. However, due to age and use, the lighting levels have dropped significantly on the fields. Currently, the levels are between 50-60% of the recommended levels that we construct at fields today.

We have discussed this drop in lighting levels with two manufacturers, an electrical engineer and a contractor who specializes in sports lighting. The consensus is that the only cost effective way to achieve the recommended lighting levels is to install new fixtures.

The attached quote is from the Buy Board. It is for the design and installation of new Musco light fixtures on the existing poles.

Staff recommends Musco for several reasons. They are the only manufacturer that we are aware of who has a "Green" system. Through engineering modifications and ongoing maintenance provided as part of the warranty, the number of fixtures required is approximately half of what a competitors system requires. This in turn reduces the operation cost to light the fields and the capital cost to install this system. Musco also provides a 10 year warranty and guarantees the lighting levels during this period, as well as a minimum level at the end of the 10 year warranty. They replace lamps as they burnout at no cost to the City for 10 years and will

relamp the entire complex at 5,000 hours of use or the end of the warranty, which ever is first.

Musco also has a very effective system to control glare and light pollution. These fields will meet the dark skies ordinance once this work is complete. There will be a dramatic difference seen by the neighboring homes.